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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/937,897	09/28/2001	Oliver Lemmer	00475.00004	5702	
7590 03/22/2005			EXAM	EXAMINER	
Banner & Witcoff			TURNER, ARCHENE A		
Eleventh Floor 1001 G Street NW			ART UNIT	PAPER NUMBER	
Washington, DC 20001-4597			1775		

DATE MAILED: 03/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)				
	09/937,897	LEMMER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Archene A Turner	1775				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 4/04.						
<u> </u>						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 3-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 3-20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	•					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
Diplomation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		te atent Application (PTO-152)				
Datast and Trademak Office						

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1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 15-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 15-19 depend from a cancelled claim, rendering the claims indefinite.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 4. Claims 1,3-8,11-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Zimmer (6,063,149).

The rejection is maintained and applied to other claims for reasons of record in Paper mailed 7/03. Applicant's arguments filed 4/04 have been fully considered but they are not persuasive. The applicant argues that the reference does not disclose the claimed nano-crystalline diamond layer or specific layers. This is not found persuasive since the reference does disclose a first layer, then a transitional layer then a final surface layer containing crystals less than 3 micron

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since anticipates the claimed invention. The reference also discloses different process conditions providing for each layer and thus the rejection stands. The applicant has failed to provide factual evidence that the coefficient of thermal expansion of the instant invention is different in kind from the reference. The applicant is reminded that it is elementary that the mere recitation of a newly discovered function or property, inherently possessed by things in the prior art, does not cause a claim drawn to distinguish over the prior art. Additionally, where the Patent Office has reason to believe that the functional limitation asserted to be critical for establish novelty in the claimed subject matter may, in fact, be an inherent characteristic of the prior art, it possesses the authority to require the applicant to prove that the subject matter shown to be in the prior art does not possess the characteristic relied on. (*In re Swinehart*, 169 USPQ 226 (CCPA 1971)).

5. Claims 1-5,8-9,11-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Crystallume (EP 0 596 619).

The rejection is maintained for reasons of record in Paper mailed 7/03.

Applicant's arguments filed 4/04 have been fully considered but they are not persuasive. The applicant argues that the reference does not disclose the claimed nano-crystalline diamond layer or the claimed thermal expansion. The reference discloses different process conditions providing for each layer and thus the thermal expansion in each layer will be different thus the rejection stands.

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The applicant has failed to provide factual evidence that the crystal size of the second layer is different in kind from the reference. The applicant is reminded that it is elementary that the mere recitation of a newly discovered function or property, inherently possessed by things in the prior art, does not cause a claim drawn to distinguish over the prior art. Additionally, where the Patent Office has reason to believe that the functional limitation asserted to be critical for establish novelty in the claimed subject matter may, in fact, be an inherent characteristic of the prior art, it possesses the authority to require the applicant to prove that the subject matter shown to be in the prior art does not possess the characteristic relied on. (*In re Swinehart, 169 USPQ 226 (CCPA 1971)*).

6. Claims 1,2-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Hirano et al (6,066,339) or White (5,942,317).

Hirano et al or White discloses the claimed layers within the claimed thickness having different carbon content and thus the claimed thermal expansion is considered inherent.

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

8. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Archene Turner whose new telephone number is (571) 272-1545. The examiner can normally be reached on Monday through Wednesday, and Friday from 10:30 am. to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Please remember to include on the fax, the art unit 1775, serial number and Examiner's name.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Á. A. Turner Primary Examiner Group 1700

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